

What is claimed is:

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1. In combination, a display and a support stand for adjustably supporting said display,

said display comprising a housing having a front and a rear, a screen mounted on said housing front and a boss projecting from said housing rear; and
5 said stand having a bearing surface for receiving said boss and removably and rotatably supporting said display.

2. The combination of claim 1 wherein said boss is detachably secured to said housing.

10 3. The combination of claim 1 wherein said boss includes a centerline normal to said display and a generally circular cross section normal to said centerline.

4. The combination of claim 3 wherein said boss includes a first end adjacent said housing and a second end spaced from said housing, said second end including a flange.

15 5. The combination of claim 1 wherein said bearing surface comprises an arc of a circle.

6. The combination of claim 5 wherein said arc is greater than 180 degrees.

7. The combination of claim 4 wherein said stand comprises a plate member having a thickness, said bearing surface is located in said plate member, and said flange is spaced from said housing by a distance substantially equal to said plate thickness.

20 8. The combination of claim 6 wherein said circular arc has first and second ends spaced apart by a first distance and said boss has a minor axis shorter than said first distance and a major axis longer than said first distance.

9. The combination of claim 7 wherein said bearing surface has first and second

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ends and said plate member includes first and second walls extending from said first and second ends.

10. The combination of claim 1 wherein said boss is centrally located on the housing rear.

5 11. The combination of claim 1 wherein said housing is rotatable on said stand between a portrait orientation and a landscape orientation.

12. The combination of claim 1 including a stop for limiting the rotation of said display with respect to said stand.

10 13. The combination of claim 11 including at least one stop for selectively holding said housing in either said portrait or said landscape orientation.

14. The combination of claim 1 wherein said stand comprises first and second hingedly connected legs.

15 15. The combination of claim 1 wherein said stand comprises first and second legs connected by a hinge.

16 16. The combination of claim 15 wherein said hinge is selectively lockable in at least two positions.

17. The combination of claim 15 wherein said hinge comprises at least one spring clutch.

18. The combination of claim 15 wherein said hinge comprises a balance spring.

20 19. The combination of claim 18 wherein said first leg lies generally in a first plane, said second leg lies generally in a second plane and wherein said hinge is shiftable between a first position wherein said first leg and said second leg meet at an obtuse angle and a second position wherein said first leg and said second leg meet at an acute angle.

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20. The combination of claim 19 wherein said obtuse angle is between about 140 degrees and 180 degrees and said acute angle is between about 20 degrees and 60 degrees.

5 21. The combination of claim 17 including at least one lever for shifting said at least one spring clutch between an engaged position and a disengaged position.

22. The combination of claim 21 wherein said at least one spring clutch comprises first and second oppositely mounted spring clutches.

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23. The combination of claim 15 wherein a portion of said first leg is covered with a high friction material and wherein a portion of said second leg is covered with a low friction material.

24. The combination of claim 15 wherein said hinge is lockable to prevent the angle between said first and second legs from increasing.

25. The combination of claim 15 wherein said hinge is lockable to prevent the angle between said first and second legs from decreasing.

15 26. The combination of claim 15 wherein said hinge includes a first lock for preventing the angle between said first and second legs from increasing, a second lock for preventing the angle between said first and second legs from decreasing, and at least one actuator for releasing said first or said second lock.

27. The combination of claim 1 wherein said boss has a T-shaped cross section.

20 28. In combination a display and a stand for a display wherein said display comprises a housing having a boss projecting therefrom and said stand comprises first and second hingedly connected supports and a channel in which said boss is removably and rotatably received, said first and second supports being selectively lockable in at least

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two positions.

29. The combination of claim 28 wherein said channel is arcuate.

30. The combination of claim 29 wherein said boss includes an arcuate outer surface.

5 31. In combination, a digitizer having a display screen and a stand for supporting said digitizer on a surface, said digitizer including a housing having a boss and said stand comprising first and second hingedly connected supports and a channel in which said boss is removably and rotatably received, said first and second supports being selectively lockable in a first position for holding said digitizer at a first angle with respect to a
10 support surface and a second position for holding said digitizer at a second angle with respect to a support surface.

32. The combination of claim 31 wherein said first angle is greater than 45 degrees and said second angle is less than 45 degrees.

33. The combination of claim 31 wherein said first position comprises a display
15 position and said second position comprises a tablet position.

34. A method of mounting a PED on a stand comprising the steps of:
providing a PED including a housing having a boss projecting therefrom;
providing a stand comprising first and second hingedly connected supports
lockable in at least a first position and a second position, said first support including a
20 channel and first and second walls extending from said channel and angled toward one another;

sliding said boss into said channel; and

placing said first and second supports in either said first position or said second

position.

35. The method of claim 34 including the additional step of, before sliding said boss into said channel, moving said PED boss toward said channel until said boss contacts one of said first and second walls.

36. The method of claim 34 including the additional step of rotating said PED from one of a portrait orientation and a landscape orientation to the other of a portrait orientation and a landscape orientation.

37. A PED adapted to be supported by a user's lap or mounted in a stand in a first position for use as a writing tablet or in a second position for use as a display, said PED comprising:

a housing;

a display screen mounted in said housing; and

a boss projecting from a first side of said housing, said boss having a flange and being dimensioned to support the weight of said PED when said PED is mounted in a stand.

38. The PED of claim 37 wherein said boss has a circular cross section.

39. The PED of claim 37 wherein said boss is mounted at a first location on said first side and wherein said first side is substantially smooth at all locations other than said first location.

40. In combination a display and a support stand for adjustably supporting said display,

said display comprising:

a housing having a front and a rear;

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a screen mounted on said housing front; and
a boss projecting from said housing rear and including a centerline normal to said display and a generally circular cross section normal to said centerline, a first end adjacent said housing and a second end spaced from said housing and having a flange;

said stand comprising:

a plate member having a thickness,

a bearing surface comprising a greater-than-180-degree arc of a circle located in said plate member and having first and second ends and first and second walls extending from said first and second ends, said bearing surface receiving said boss and removably and rotatably supporting said display for rotation between a portrait orientation and a landscape orientation;

a first leg comprising said plate member;

a second leg connected to said first leg by a selectively lockable hinge including a spring clutch and a balance spring, said first leg lying generally in a first plane, said second leg lying generally in a second plane, said first and second legs being shiftable between a first position wherein said first leg and said second leg meet at an obtuse angle and a second position wherein said first leg and said second leg meet at an acute angle;

said first and second legs each including a free end spaced from said hinge; and

said display and stand together having a center of gravity above and between said free ends when said display is supported on said stand; and

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at least one lever for shifting said spring clutch between an engaged position and a disengaged position.

41. In combination a display and a support stand for adjustably supporting said display,

5 said display comprising a housing having a front and a rear and a screen mounted on said housing front;

a bearing member mounted on one of said display and said support;

a receiver mounted on the other one of the display and the support, said receiver removably and rotatably receiving said bearing member and supporting said housing.

10 42. The combination of claim 41 wherein said bearing member is located on said support.

43. The combination of claim 42 wherein said bearing member comprises a boss having a T-shaped cross section.

15 44. The combination of claim 43 wherein said receiver comprises a chamber in said housing having an inner width greater than an opening width.

45. A stand for rotatably and releaseably supporting a display comprising:
a base; and
support means for rotatably supporting and releaseably securing a display on said base.

20 46. The stand of claim 45 wherein said base comprises first and second hingedly connected legs lockable in at least two different angular relationships.

47. The stand of claim 46 wherein said support means comprises a portion of said first leg.

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48. The stand of claim 46 wherein said support means comprises a platform rotatably attached to said first leg.

49. The stand of claim 48 wherein said platform comprises a cradle.

50. The stand of claim 47 wherein said first leg includes a projection and said
5 cradle comprises an opening in which said bearing is received, said projection and opening sized such the relationship between said bearing and said opening holds said cradle in different orientations with respect to said first leg.

51. The stand of claim 50 wherein said cradle includes at least one peg insertable in a portion of a display.

10 52. In combination a display and a stand for adjustably holding said display, said display comprising a housing having a front and a rear and a screen mounted on said housing front;

a rotatable bearing member mounted on one of said display and said stand; and
a support mounted on the other one of the display and the stand and removably
15 supporting said bearing member and said housing.

53. The combination of claim 52 wherein said bearing member is mounted on said housing rear and said support includes at least one projection.

54. The combination of claim 53 wherein said bearing includes at least one opening for receiving said at least one projection.

20 55. The combination of claim 54 wherein said at least one opening comprises a pair of angled sidewalls meeting at vertex.

56. The combination of claim 54 wherein said bearing includes positioning means for positioning said at least one projection with respect to said bearing means.

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57. The combination of claim 54 wherein said at least one projection includes a flange.

58. The combination of claim 57 wherein said at least one opening includes a flange.

5 59. The combination of claim 52 wherein said stand includes first and second legs for supporting said display at a plurality of different angles with respect to a support surface.

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